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Maximus V Formula/ThunderFX

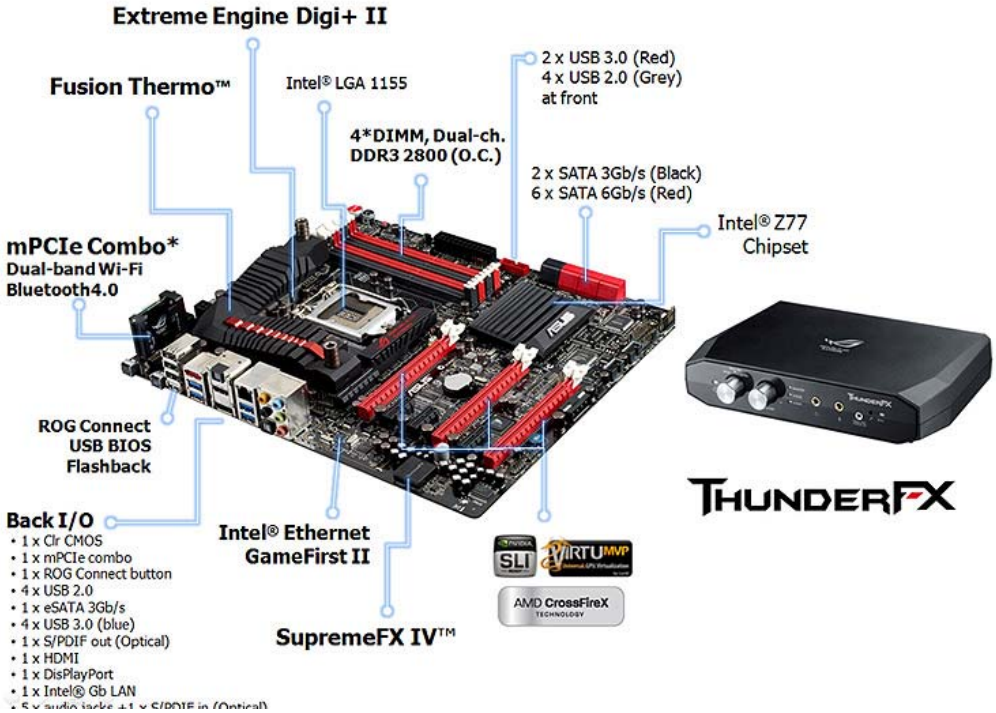
Better gaming through great multi-platform audio

- LGA1155 socket for 3rd generation Intel® Core™ processor-based platform and 2nd Generation Core™ i7/ i5/ i3/ Pentium® / Celeron® Processors
- Intel® Z77 Express Chipset
- ThunderFX - Versatile Gaming Audio for PC&Consoles
- SupremeFX IV - AMPed For Perfect Audio
- GameFirst II / Intel Gb LAN – Put Your Frags First
- mPCIe Combo - Combo Power Up!
- **Fusion Thermo - World's first hybrid air and water cooling thermal design**
- **Windows 8 Ready – Assured Compatibility**

The Republic of Gamers consists only the best of the best. We offer the best hardware engineering, the fastest performance, the most innovating ideas, and we welcome the best gamers to join in.

In the Republic of Gamers, mercy rules are only for the weak, and bragging rights means everything. We believe in making statements and we excel in competitions. If your character matches our trait, then join the elite club, make your presence felt, in the Republic of Gamers.

Maximus V Formula/ThunderFX Product Overview



ROG Gaming Features

SupremeFX IV

AMPed for Perfect Audio

SupremeFX IV builds on its predecessors, with a carefully tested set of audio capacitors that provide a warmer sound, and a new 300 ohm headphone amplifier built-in, it gives both greater grunt and better gaming audio than ever before. Combined with existing SupremeFX innovations such as the 'Red Line' physical PCB separation, and EMI shield, SupremeFX IV sets an unparalleled audio standard for PC gamers.

GameFirst II

Put Your Frags First

Offering powerful, yet easy-to-use network control, ROG GameFirst II with cFos Traffic Shaping technology is revamped with a more intuitive ROG user interface. Featuring both an exclusive EZ Mode for beginners to setup and Advanced Mode for professional users to tweak, it means whatever your PC does in the background; your fragging will always come first!

Intel Gigabit LAN

Experience the fast network connectivity!

The LAN solution from Intel has been long known to have a better throughput, lower CPU utilization as well as better stability. With the Intel Gigabit LAN solutions onboard, the ultimate network experience can therefore be delivered to its users like never before.

ThunderFX

ThunderFX

Versatile Gaming Audio for PC&Consoles

The ThunderFX gives gamers more than just another PC soundcard; this versatile device provides premium gaming audio and connectivity for your favorite PC headphones on any PC, laptop or console. Get a competitive advantage from Environmental Noise Cancellation (ENC) technology and GamEQ sound profiles with clear visual identifiers, while the 300 ohm headphone amplification and premium Nichicon FG Series capacitors for pure, powerful audio. The ThunderFX is a supreme sound accessory that your console gaming, LAN gaming and entertainment enjoyment requires.

* ThunderFX is only availble on Maximus V Formula/ThunderFX SKU.

ROG Exclusive Features

mPCIe Combo with WiFi

Combo Power Up!

Hook up immediate extra connectivity to the ROG motherboard and say so long to physical limitations. The unique Combo attaches to the motherboard near the rear I/O , and comes with one mSATA port supporting Intel® Smart Response Technology hybrid storage acceleration with compatible mSATA SSDs, and a dual band 2.4/5 GHz Wi-Fi 802.11 a/b/g/n and Bluetooth v4.0 card bundled into its mini PCI Express 2.0/USB 2.0 combo port on the opposite side. This way, you can connect extra devices without taking up valuable space on the motherboard, and get the best of both worlds: for better connectivity and expandability without sacrificing essential features.

Fusion Thermo

Sharp ROG looks and cooler temps with patent-pending innovation

Fusion Thermo offers the world's first air and water cooling-ready thermal design, available on ROG Maximus V Formula motherboards. Alongside a premium heatsink, it integrates a heatpipe and an all-copper water channel with electroplated barbs on both ends, making it the most flexible choice for power users. It brings better heat removal from critical power delivery components and quicker liquid cooling setups for an undisputed overclocking advantage. > Check QVL

ROG Connect

Plug and Overclock - Tweak it the hardcore way!

Monitor the status of your desktop PC and tweak its parameters in real-time via a notebook—just like a race car engineer—with ROG Connect. ROG Connect links your main system to a notebook through a USB cable, allowing you to view real-time POST code and hardware status readouts on your notebook, as well as make on-the-fly parameter adjustments at a purely hardware level.

Extreme Engine Digi+ II

Optimum power efficiency with premium components and intelligent digital design

The Extreme Engine Digi+ II has been upgraded and equipped with the finest Japan-made 10K Black Metallic capacitors, while the digital VRM design allows you to achieve ultimate performance with adjustable CPU and memory power management frequencies. Precise adjustments create greater efficiency, stability, double lifespan and performance for total system control.

ROG CPU-Z

Whole new design of CPU-Z

ROG CPU-Z is a customized ROG version authorized by CPUID. It has the same functionality and credibility as the original version, with a unique design. Use the whole new look of ROG CPU-Z to truly report your CPU related information and your uniqueness.

Multi-GPU Technology

LucidLogix Virtu MVP

Up to 60% Hybrid Graphics Boost and 3X Faster Video Conversion

LucidLogix Virtu MVP featuring HyperFormance™ Technology boosts your discrete graphics card up to 60% beyond its original performance through the test of 3DMark Vantage. Designed for Intel® processor graphics and Windows® 7 PCs, it perfectly combines the performance of discrete graphics cards with fast computing iGPU.

Also with the newly designed Virtual Sync, users can enjoy a smoother gaming experience by eliminating tearing artifacts. LucidLogix Virtu MVP could also dynamically assign tasks to the best available graphics resource, based on power, performance and system load. This allows users to fully utilize 3x faster video conversion with Intel® Quick Sync Video 2.0 technology while retaining high-end 3D rendering and gaming performance, provided by both NVIDIA® and AMD graphic cards. When the discrete graphics card is not required, power consumption goes automatically down to near zero, making the system more environmentally-friendly. For users searching for perfection, LucidLogix Virtu MVP provides great graphical performance and the best flexibility and efficiency.

Up to 60% Discrete Graphics Boost and 3X Faster Video Conversion

* LucidLogix® Virtu Universal MVP™ supports Windows® 7 operating system.
** Intel® Quick Sync Video feature is supported by 3rd/2nd generation Intel® Core™ processor family.
*** System Config: OS: Windows 7 64bit SP1 | MB: P8Z77-V DELUXE | CPU: CPU-1155-QB15-2700K-3.5G-Sandy BRIDGE100-8M |DIMM: DDR3 G.SKILL 17000CL9Q-16GBZH 4GB * 4 | Lucidvirtu MVP version: V2.1.110.19997 | On-board Intel VGA Driver version: V8.15.10.2598 | ASUS GTX580 Driver version: V8.17.12.8562

SLI/CrossFire On-Demand

Why choose when you can have both?
SLI or CrossFireX? Fret no longer because with the ROG Maximus V Formula Series, you'll be able to run both multi-GPU setups. The board features SLI/CrossFire on Demand technology, supporting up to Quad-GPU SLI or Quad-GPU CrossFireX configuration. Whichever path you take, you can be assured of jaw-dropping graphics at a level previously unseen.

CPU Feature

LGA1155 Intel® 3rd/2nd Generation Core™ i7/ Core™ i5/ Core™ i3/ Pentium® / Celeron® Processors Ready

This motherboard supports LGA1155 socket for 3rd generation Intel® Core™ processor-based platform and 2nd Generation Core™ i7/ i5/ i3/ Pentium® / Celeron® Processors in the LGA1155 package, with iGPU, memory and PCI Express controllers integrated to support onboard graphics output with dedicated chipsets, 2-channel (4 DIMM) DDR3 memory and 16 PCI Express 3.0/2.0 lanes. This provides great graphics performance. LGA1155 socket for 3rd generation Intel® Core™ processor-based platform and 2nd Generation Core™ i7/ i5/ i3/ Pentium® / Celeron® Processorsare among the most powerful and energy efficient CPUs in the world

Chipset Features

PCI Express® 3.0

PCI Express® 3.0 (PCIe 3.0) is the latest PCI Express bus standard with improved encoding schemes that provide twice the performance of current PCIe 2.0. Total bandwidth for a x16 link reaches a maximum of 32GB/s, double the 16GB/s of PCIe 2.0 (in x16 mode). As such, PCIe 3.0 provides users unprecedented data speeds, combined with the convenience and seamless transition offered by complete backward compatibility with PCIe 1.0 and PCIe 2.0 devices. PCIe 3.0 will become a must-have feature for users who wish to improve and optimize graphic performance, as well as have the latest technology available to them.
* Actual PCIe speed depends on installed CPU type.

Intel® Z77 Chipset

The Intel® Z77 Express Chipset is a single-chipset design to support LGA1155 socket for 3rd generation Intel® Core™ processor-based platform and 2nd Generation Core™ i7/ i5/ i3/ Pentium® / Celeron® Processors. It provides improved performance by utilizing serial point-to-point links, allowing increased bandwidth and stability. Additionally, Z77 chipset provides 4 USB 3.0 ports for 10 times faster data retrieval speed. Moreover, Intel® Z77 Express Chipset can also enable iGPU function, letting users enjoy the latest Intel® integrated graphic performance.

ASUS Crystal Sound

DTS Connect

Expand Your PC Audio Experience
To get the most out of your audio entertainment across all formats and quality levels, DTS Connect combines two enabling technologies. DTS Neo:PC™ upmixes stereo sources (CDs, MP3s, WMAs, internet radio) into as many as 7.1 channels of incredible surround sound. Consumers can then connect their PC to a home theater system.DTS Interactive is capable of performing multi-channel encoding of DTS bitstreams on personal computers, and sending encoded bitstreams out of a digital audio connection (such as S/PDIF or HDMI) designed to deliver audio to an external decoder.

DTS UltraPC II

DTS UltraPC II delivers exceptional 7.1 surround through the most popular PC audio setups - your existing stereo speakers or headphones. In addition to virtual surround, it upgrades original sound to new levels with Audio Restoration, recreating the dynamic range of audio files. Symmetry mode improves the balance of perceived loudness across different input sources and Enhance boosts audio quality through high and low frequency equalization. With these technologies, users experience better home theater audio with ease.

Specifications

CPU	Intel® Socket 1155 for 3rd/2nd Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors Supports Intel® 22 nm CPU Supports Intel® 32 nm CPU Supports Intel® Turbo Boost Technology 2.0

	* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types. * Refer to www.asus.com for CPU support list
Chipset	Intel® Z77
Memory	4 x DIMM, Max. 32GB, DDR3 2800(O.C.)/2666(O.C.)/2600(O.C.)/2400(O.C.)/2200(O.C.)/2133(O.C.)/1866 (O.C.)/1600/1333/1066 MHz Non-ECC, Un-buffered Memory Dual Channel Memory Architecture Supports Intel® Extreme Memory Profile (XMP) * Hyper DIMM support is subject to the physical characteristics of individual CPUs. * Refer to www.asus.com or user manual for the Memory QVL (Qualified Vendors Lists).
Graphic	Integrated Graphics Processor Multi-VGA output support : HDMI/DisplayPort ports - Supports HDMI with max. resolution 1920 x 1200 @ 60 Hz - Supports DisplayPort with max. resolution 2560 x 1600 @ 60 Hz Supports Intel® HD Graphics, InTru™ 3D, Quick Sync Video, Clear Video HD Technology, Insider™
Multi-GPU Support	Supports NVIDIA® SLI™ Technology Supports AMD 3-Way CrossFireX™ Technology Supports AMD CrossFireX™ Technology Supports LucidLogix® Virtu™ MVP Technology *1
Expansion Slots	3 x PCIe 3.0/2.0 x16 (x16 or dual x8 or x8/x4/x4) *2 1 x PCIe 2.0 x4 3 x PCIe 2.0 x1 1 x mini-PCIe 2.0 x1 *3
Storage	**Intel® Z77 chipset :** 2 x SATA 6Gb/s port(s), red 2 x SATA 3Gb/s port(s), black 1 x eSATA 3Gb/s port(s), red 1 x mini-SATA 3Gb/s port(s) , black Support Raid 0, 1, 5, 10 Supports Intel® Smart Response Technology, Intel® Rapid Start Technology, Intel® Smart Connect Technology *4 **ASMedia® PCIe SATA controller :** *5 4 x SATA 6Gb/s port(s), red
LAN	Intel®, 1 x Gigabit LAN Controller(s)
Wireless Data Network	Wi-Fi 802.11 a/b/g/n Supports dual band frequency 2.4/5 GHz
Bluetooth	Bluetooth V4.0 Bluetooth V3.0+HS
Audio	SupremeFX IV built-in 7.1-Channel High Definition Audio CODEC - Output Signal-to-Noise Ratio (A-Weighted): 110 dB - Output THD+N at 1kHz: 95 dB - TI 6120A2 high fidelity headphone amplifier - Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking **Audio Feature :** - SupremeFX Shielding™ Technology - ELNA premium audio capacitors - 1500 uF Audio Power Capacitor - Blu-ray audio layer Content Protection - DTS Ultra PC II - DTS Connect - Optical S/PDIF out port(s) at back panel
ThunderFX	**Performance and Chipset:** Output Signal-to-Noise Ratio (A-Weighted): 114dB Digital-to-Analog Converter: 120dB SNR, 107dB THD+N (Max. 192kHz/ 24-bit) C-Media 6631 audio processor (Max. 192kHz/ 24bit) Built-in high fidelity headphone amplifier Up to 300 ohms headphone impedance support **Special Features:** Multi-platform Support: PC, Xbox 360, PS3 Master/ voice/ game volume control independently (PS3, Xbox 360) Built-in ENC (Environmental Noise Cancellation) Technology GamEQ: 3 preset EQ profiles with graphical audio effect tuning hints Xear™ Surround Headphone Xear™ SingFX FlexBass™, Smart Volume Normalize™ DS3D GX 1.0, OpenAL **I/O Ports:** 2x RCA audio input 1x USB 2.0 connector 1x 3.5mm headphone jack 1x 3.5mm microphone jack 1x 2.5mm microphone jack for Xbox 360 voice input **Dimensions:** 191 x 137.5 x 37mm (LxWxH)
USB Ports	

	Intel® Z77 chipset : 4 x USB 3.0 port(s) (2 at back panel, blue, 2 at mid-board) **Intel® Z77 chipset :** 8 x USB 2.0 port(s) (4 at back panel, black+white, 4 at mid-board) **ASMedia® USB 3.0 controller :** 2 x USB 3.0 port(s) (2 at back panel, blue)
Overclocking Features	**mPCIe Combo™ (mPCIe/mSATA combo card)** **ROG Connect :** - RC Diagram - RC Remote - RC Poster - GPU TweakIt **Extreme Engine Digi+ II :** - 8 -phase CPU power design + 4 -phase iGPU power design - 2 -phase Memory power design **ROG Extreme OC kit :** - Slow Mode - LN2 Mode - EZ Plug **Probelt** **UEFI BIOS features :** - ROG BIOS Print - GPU.DIMM Post **GameFirst II** **iROG** **Extreme Tweaker** **Loadline Calibration** **USB BIOS Flashback** **Overclocking Protection :** - ASUS C.P.R.(CPU Parameter Recall)
Special Features	**ASUS TurboV EVO :** - CPU Level Up **ASUS EPU :** - EPU **ASUS Wi-Fi GO!** - Wi-Fi GO! Function: DLNA Media Hub, Smart Motion Control, Remote Desktop, Remote Keyboard & Mouse, File Transfer, Capture & Send **ASUS Exclusive Features** : - AI Suite II - Ai Charger+ - USB Charger+ - USB 3.0 Boost - Disk Unlocker **ASUS Quiet Thermal Solution** : - ASUS Fan Xpert 2 **ASUS EZ DIY :** - ASUS O.C. Profile - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2 **ASUS Q-Design :** - ASUS Q-Shield - ASUS Q-Code - ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED) - ASUS Q-Slot - ASUS Q-DIMM - ASUS Q-Connector
Back I/O Ports	1 x DisplayPort 1 x HDMI 1 x eSATA 3Gb/s 1 x LAN (RJ45) port(s) 4 x USB 3.0 4 x USB 2.0 1 x Optical S/PDIF out 1 x Optical S/PDIF in 5 x Audio jack(s) 1 x Clear CMOS button(s) 1 x ROG Connect On/ Off switch(es)
Internal I/O Ports	1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s) 2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s) 6 x SATA 6Gb/s connector(s) 2 x SATA 3Gb/s connector(s) 2 x CPU Fan connector(s) (4 -pin) 3 x Chassis Fan connector(s) (4 -pin) 3 x Optional Fan connector(s) (4 -pin) 1 x S/PDIF out header(s) 1 x 24-pin EATX Power connector(s) 1 x 8-pin ATX 12V Power connector(s)

	1 x 4-pin ATX 12V Power connector(s) 1 x Front panel audio connector(s) (AAFP) 1 x System panel(s) 1 x Slow Mode switch(es) 8 x ProbeIt Measurement Points 3 x Thermal sensor connector(s) 1 x LN2 Mode header(s) 1 x EZ Plug connector(s) (4-pin Molex power connector) 1 x Power-on button(s) 1 x Reset button(s) 1 x Go Button(s) 1 x mPCIe Combo header(s)
Accessories	User's manual I/O Shield 2 x SATA 3Gb/s cable(s) 4 x SATA 6Gb/s cable(s) 1 x SLI bridge(s) 1 x Q-connector(s) (2 in 1) 1 x ROG Connect cable(s) 1 x 12 in 1 ROG Cable Label(s) 1 x mPCIe Combo card(s) with dual band WiFi 802.11 a/b/g/n module + Bluetooth v4.0/3.0+HS module 1 x 2-in-1 RF Cable(s) 2 x Wi-Fi Ring Moving Antenna(s) 1 x Diablo III Mousepad(s) 1 x ROG Logo Sticker(s) 1 x 2.5mm Xbox 360 voice input cable(s) 1 x dual-head USB cable(s) 1 x ThunderFX Xbox 360 AV + 3.5 mm to RCA cable(s)
BIOS	64Mb UEFI AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.5, ACPI2.0a Multi-Language BIOS
Manageability	WfM2.0, DMI2.0, WOL by PME, PXE
Support Disc	Drivers Kaspersky® Anti-Virus DAEMON Tools Pro Standard GameFirst II ROG CPU-Z Mem TweakIt ASUS AI Suite II ASUS WebStorage ASUS Utilities
Form Factor	Extended ATX Form Factor 12 inch x 10.1 inch (30.5 cm x 25.7 cm)
Note	*1: LucidLogix Virtu MVP supports Windows 7 operating systems. *2-1: PCIe 3.0 speed is supported by Intel® 3rd generation Ivy Bridge Core™ Processors. *2-2: x8/x4/x4 mode is supported by Intel® 3rd generation Ivy Bridge Core™ Processors. *3-1: The mPCIe 2.0 x1 slot is located on mPCIe Combo™ expansion card. *3-2: The mini-PCIe slot is pre-installed with an Wi-Fi/Bluetooth module. *4: Supports on Intel® Core™ processor family with Windows® 7 operating systems. *5: These SATA ports are for data hard drives only.